

09/807234

JG02 Rec'd PCT/PTO 06 APR 2001

## EXPRESS MAIL CERTIFICATE

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PATENT TRADEMARK OFFICE

Docket No.: 0136/OJ067

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

PARK, Tae-Shin; KIM, Sung-Keun;  
KIM Jin-Hee and PARK, Mi-Sun;

Serial No.: TBA (U.S. National Phase of International Application  
No. PCT/KR00/01213 filed on October 26, 2000)

Confirmation No.: n/a

Filed: Concurrently Herewith

For: GENOTYPING KIT FOR DIAGNOSIS OF HUMAN PAPILLOMAVIRUS  
INFECTION

April 6, 2001

**INFORMATION DISCLOSURE STATEMENT**

Hon. Commissioner of  
Patents and Trademarks  
Washington, DC 20231

Sir:

In order to comply with 37 CFR 1.97 and 1.98, attached hereto is a  
copy of Form PTO-1449 and copies of the documents listed thereon.

In accordance with MPEP Sections 609 and 707.05(b), it is requested that each document cited (including any cited in applicant's specification which is not repeated on the attached Form PTO-1449) be given thorough consideration and that it be cited of record in the prosecution history of the present application by initialing Form PTO-1449 next to the document. Such initialing is requested even if the Examiner does not consider a cited document to be sufficiently pertinent to use in a rejection, or otherwise does not consider it to be prior art for any reason, or even if the Examiner does not believe that the guidelines for citation have been fully complied with. This is requested so that each document becomes listed on the face of the patent issuing on the present application.

The undersigned is also enclosing herewith a copy of an International Search Report issued for the Korean counterpart of the present patent application (Application No. PCT/KR00/01213).

This submission is filed within three months of the filing date of this application.

The present Information Disclosure Statement is being submitted in compliance with 37 CFR 1.56, but the citation of such document is not to be construed as an admission that such document is necessarily relevant or prior art. No representation is intended that the cited documents represent the results of a complete search, and it is anticipated that the Examiner, in the normal course of examination, will make an independent search and will determine the best prior art

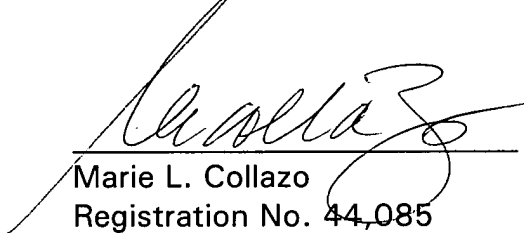
Serial No.

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consistent with 37 CFR 1.104(a) and 1.106(b) and, in the course of each search, will review for relevance every document cited on the attached form even if not initialed.

Early and favorable consideration is earnestly solicited.

Respectfully submitted,



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Serial No.

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FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT &amp; TRADEMARK OFFICE

SHEET 1 OF 1  
(REV. 7-80)**LIST OF REFERENCES CITED BY APPLICANT**

(Use Several Sheets if Necessary)

DOCKET NO.: 0136/OJ067

SERIAL NO: TBA (U.S. National Phase  
of PCT/KR00/01213  
filed on 10/26/2000)

APPLICANT: PARK, Tae-Shin et al.

FILING DATE: Concurrently Herewith  
CONFIRMATION NO:**U.S. PATENT DOCUMENTS**

<u>*EXAMINER INITIALS</u>	<u>DOCUMENT NUMBER</u>	<u>DATE</u>	<u>NAME</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>FILING DATE</u>
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**FOREIGN PATENT DOCUMENTS**

<u>*EXAMINER INITIALS</u>	<u>DOCUMENT NUMBER</u>	<u>DATE</u>	<u>COUNTRY</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>TRANSLATION YES NO</u>
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**OTHER REFERENCES****(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)**\*EXAMINER  
INITIALS**SEE ATTACHED LIST OF FOURTEEN (14) PRIOR ART REFERENCES**

EXAMINER: \_\_\_\_\_

DATE CONSIDERED: \_\_\_\_\_

\*EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

- General Primer PCR, *Gynecologic Oncology*, 72: 337-341(1999)
9. Jacob Bornstein et al., A Repetitive DNA Sequence That Characterizes Human Papillomavirus Integration Site into the Human Genome is Present in Vulvar Vestibulitis, *Eur. J. Obstetrics & Gynecology and Reproductive Biol.*, 89: 173-176(2000)
  10. A. Hidalgo et al., Human Papillomavirus Status and Chromosomal Imbalances in Primary Cervical Carcinomas and Tumour Cell Lines, *Eur. J. Cancer*, 36: 542-548(2000)
  11. Patrick K.E. Magnusson and Ulf B. Gyllensten, Cervical Cancer Risk: Is There a Genetic Component?, *Molecular Medicine Today*, 6: 145-148(2000)
  12. Alex van Belkum et al., Genotyping Human Papillomavirus Type 16 Isolates from Persistently Infected Promiscuous Individuals and Cervical Neoplasia Patients, *J. Clin. Microbiol.*, 33(11): 2957-2962(1995)
  13. Catherine A. Harwood et al., Degenerate and Nested PCR: a Highly Sensitive and Specific Method for Detection of Human Papillomavirus Infection in Cutaneous Warts, *J. Clin. Microbiol.*, 37(11): 3545-3555(1999)
  14. P.E. Gravitt et al., Improved Amplification of Genital Human Papillomavirus, *J. Clin. Microbiol.*, 38(1): 357-361(2000)

LIST OF PRIOR ART MATERIALS

1. P.E. Gravitt et al., Genotyping of 27 Human Papillomavirus Types by Using L1 Consensus PCR Products by a Single-Hybridization, Reverse Line Blot Detection Method, *J. Clin. Microbiol.*, 36(10): 3020-3027(1998)
2. Marcel V. Jacobs et al., A General Primer GP5+/GP6+-Mediated PCR-Enzyme Immunoassay Method for Rapid Detection of 14 High-Risk and 6 Low-Risk Human Papillomavirus Genotypes in Cervical Scrapings, *J. Clin. Microbiol.*, 35(3): 791-795(1997)
3. Adriaan J.C. van den Brule et al., Rapid Detection of Human Papillomavirus in Cervical Scrapes by Combined General Primer-Mediated and Type-Specific Polymerase Chain Reaction, *J. Clin. Microbiol.*, 28(12): 2739-2743(1990)
4. Ana-Maria de Roda Husman et al., The Use of General Primers GP5 and GP6 Elongated at Their 3' Ends with Adjacent Highly Conserved Sequences Improves Human Papillomavirus Detection by PCR, *J. General Virology*, 76: 1057-1062(1995)
5. Taesook Hwang, Detection and Typing of Human Papillomavirus DNA by PCR Using Consensus Primers in Various Cervical Lesions of Korean Women, *J. Korean Med. Sci.*, 15:593-599(1999)
6. Jack Cuzick, Human Papillomavirus Testing for Primary Cervical Cancer Screening, *J. Am. Med. Asso.*, 283(1): 108-109(2000)
7. Hajo Delius et al., The Genomes of Three of Four Novel HPV Types, Defined by Differences of Their L1 Genes, Show High Conservation of the E7 Gene and the URR, *Virology*, 240: 359-365(1998)
8. M. Anttila et al., Failure to Demonstrate Human Papillomavirus DNA in Epithelial Ovarian Cancer by